

22

10.

add

32

105

In

Ca

Ac

$$\frac{B1}{a}$$

Sub

B2

sub D

63

64

65

66. (New) The vector of claim 65 which is viral vector.

67. (New) The vector of claim 66 wherein said viral vector is selected from the group consisting of poxviral, adenoviral and retroviral viral vectors.

68. (New) The vector of claim 65 which is a bacterial vector.

69. (New) The vector of claim 68 wherein said bacterial vector is selected from salmonella and mycobacteria.

70. (New) A process for the preparation of a chimeric protein including a protein from parainfluenza virus (PIV) and a protein from respiratory syncytial virus (RSV), which comprises:

isolating a first nucleotide sequence encoding a PIV-3 protein or a fragment thereof having fusion activity or a PIV-3 HN protein or a fragment thereof having hemagglutinin-neuraminidase activities,

isolating a second nucleotide sequence encoding a RSV-G protein or a fragment thereof having attachment activity or a RSV protein or a fragment thereof having fusion activity,

linking said first and second nucleotide sequences to form a multimeric hybrid gene, and

expressing the multimeric hybrid gene in a cellular expression system.

71. (New) The process of claim 70 wherein said multimeric hybrid gene is selected from the group consisting of $F_{PIV-3}-F_{RSV}$, $F_{RSV}-HN_{PIV-3}$ and $F_{PIV-3}-G_{RSV}$ hybrid genes.

72. (New) The process of claim 71 wherein said multimeric hybrid gene is contained in an expression vector comprising a gene selected from the group consisting of pAC DR7 (ATCC 75387), pD2 RF-HN (ATCC 75388) and pD2 F-G (ATCC 75389).

73. (New) The process of claim 71 wherein said cellular expression system is provided by mammalian cells, insect cells, yeast cells or fungal cells.

74. (New) The process of claim 70 including separating a chimeric protein from a culture of said eukaryotic cellular expression and purifying the separated chimeric protein.

75. (New) A chimeric protein including a protein from parainfluenza virus (PIV) and a protein from respiratory syncytial virus (RSV), comprising a PIV-3 F protein or a fragment thereof having fusion activity or a PIV-3 HN protein or a fragment thereof having hemagglutinin-neuraminidase activity.

sub 27

a3

0047940 010700

Sub B3

Sub B3

sub 27